

## INTERNATIONAL SEARCH REPORT

IB2004/003431

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 F16K5/22

According to international Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 F16K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 460 865 A (BTR PLC) 11 December 1991 (1991-12-11) column 2, line 29 – column 4, line 13 figures 1,2	1,2,4,7
A	-----	3,5,6
X	EP 0 100 987 A (ROCKWELL INTERNATIONAL CORPORATION) 22 February 1984 (1984-02-22) page 4, line 8 – page 6, line 20 figures 1,2	1,2,4-6
A	-----	3,7
X	FR 1 200 647 A (ANDRÉ FORTANE) 23 December 1959 (1959-12-23) page 1, right-hand column, paragraph 8 – page 2, left-hand column, paragraph 6 figures 1-4	1,2,4-6
A	-----	3,7
	-/-	

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the International filing date but later than the priority date claimed

- \*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the International search  7 February 2005	Date of mailing of the International search report  16/02/2005
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## INTERNATIONAL SEARCH REPORT

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 414 002 A (VOLPIN ALEXANDER S) 3 December 1968 (1968-12-03) column 2, line 18 - column 5, line 44 figures -----	1-7
A	US 2 175 867 A (BALLARD HERMAN E) 10 October 1939 (1939-10-10) column 2, line 6 - column 4, line 36 figure 1 -----	1-7
A	US 2 147 851 A (MALLON FELIX) 21 February 1939 (1939-02-21) the whole document -----	1-7

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US 2147851	A	21-02-1939		NONE		